Application No.: 10/046,117   Docket No.: 16159/020001; P6415

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Peter A. Yared, et al.

Conf. No.: 1021

Application No.: 10/046,117

Art Unit: 2141

Filed: January 11, 2002

Examiner: B. TIV

For: DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

DECLARATION PURSUANT TO 37 CFR §1.131

In connection with the Applicant's Response to the Office Action issued on February 2, 2006, this declaration sets forth the pertinent facts proving conception of the claimed invention prior to **October 2000**.

1. We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, are the listed inventors for U.S. Patent Application 10/046,117 entitled "DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING"

2. We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, conceived the claimed invention prior to at least October, 2000, as evidenced by: (i) an Invention Disclosure e-mailed to us on May 3, 2001, in which we were listed as inventors and (ii) the printout of a web page entitled "Transport Packager" referenced by the invention disclosure (see Invention Disclosure, p. 3). The content

of the web page created on or before <u>October 10, 2000</u> as evidenced by the "Last

Modified" information (*see* printout, p. 4) and the printout was generated on May 10,

2001 (*see* printout, p. 1). A copy of the invention disclosure is attached under Tab 1

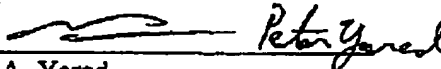and the print out entitled "Transport Packager" is attached under Tab 2.

3. We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed

   M. Ali, diligently worked on the reduction to practice of the invention from, at least,

   the date established by the web page (see attached) until, at least, the date of

   constructive reduction to practice established by the filing of U.S. Patent Application

   10/046,117, filed on January 11, 2002. See attached correspondence and

   documentation and chronology of attorney time on the referenced application during

   preparation of the referenced application Tabs 3 and 4.

Application No.: 10/046,117   Docket No.: 16159/020001; P6415

We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M.

Ali, hereby declare that all statements made herein of our own knowledge are true; and further

that these statements were made with the knowledge that willful false statements and the like so

made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the

application or any patent issued thereon.

Signed this day _26_ , of _2006_ .   _____ _Peter Yared_

                                             Peter A. Yared

Signed this day _____ , of _____ .   _____

                                             Bruce K. Daniels

Signed this day _____ , of _____ .   _____

                                             Robert N. Goldberg

Signed this day _____ , of _____ .   _____

                                             Yury Kamen

Signed this day _____ , of _____ .   _____

                                             Syed M. Ali

153706_1

Application No.: 10/046,117

Docket No.: 16159/020001; P6415

We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, hereby declare that all statements made herein of our own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.
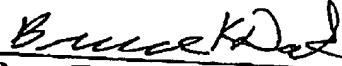
Signed this day _____, of _____.

Signed this day __30__, of __May 2006__

Signed this day _____, of _____.

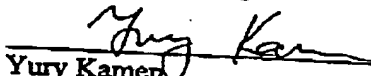Signed this day __29__, of __May 2006__

Signed this day __30__, of __May 2006__

153706_1

Peter A. Yared _____

Bruce K. Daniels _____

Robert N. Goldberg _____

Yury Kamen _____

Syed M. Ali _____

Application No.: 10/046,117   Docket No.: 16159/020001; P6415

We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, hereby declare that all statements made herein of our own knowledge are true: and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this day _____, of _____   _____
                                                Peter A. Yared

Signed this day _____, of _____.   _____
                                                Bruce K. Daniels

Signed this day _3/___, of _May, 2006__   _Robert N. Goldberg_
                                                Robert N. Goldberg

Signed this day _____, of _____   _____
                                                Yury Kamen

Signed this day _____, of _____.   _____
                                                Syed M. Ali

153706 1

Tab 1

Mail for Diane Terry-Davis   Thu, 3 May 2001 11:21:19 -0700 (PDT)   Page 1

Peter,

Here's a copy of your disclosure with the Sun reference number assigned to it (P6415). Please use this reference number when referring to this matter in the future. Should you have questions regarding the status of this disclosure, please contact your Managing Sun Attorney (listed below). Questions regarding any patent incentive payments should be directed to Kristine Bombaci, Incentive Program Specialist, x60821. Thank you again for submitting this disclosure!

Kristine:

        Approved for bonus?
        $120 each.
        1) PETER YARED (EIN: 81072)
        2) BRUCE DANIELS (EIN: 4278)
        3) ROBERT GOLDBERG (EIN: 28416)
        4) YURY KAMEN (EIN: 22083)
        5) SYED ALI (EIN: 89472)

Note to the inventor(s): If approved, the incentive transaction will be processed two weeks from today. This means that your incentive payment may not show up until the pay period after the processing date.

YARED, PETER
DANIELS, BRUCE
GOLDBERG, ROBERT
KAMEN, YURY
ALI, SYED

------------- Begin Forwarded Message -------------

X-Unix-From: nobody@patents.Corp.Sun.COM   Wed May 2 13:21:34 2001
Date: Wed, 2 May 2001 13:21:08 -0700 (PDT)
From: "peter.yared@eng.sun.com" <nobody@patents.Corp.Sun.COM>
To: undisclosed-recipients:;

NEW INVENTION DISCLOSURE BY Peter Yared
          (peter.yared@eng.sun.com)

ATTORNEY-CLIENT PRIVILEGED COMMUNICATION

Here is your copy of the new Invention Disclosure that you have just submitted. We will contact you shortly about preparing the patent application.

P6415 – Invention Disclosure – Yared

05/10/01   THU 19:21   [TX/RX NO 8080]

PAGE 17/37 * RCVD AT 11/29/2006 9:10:44 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/42 * DNIS:2738300 * CSID:7132288778 * DURATION (mm-ss):11-48
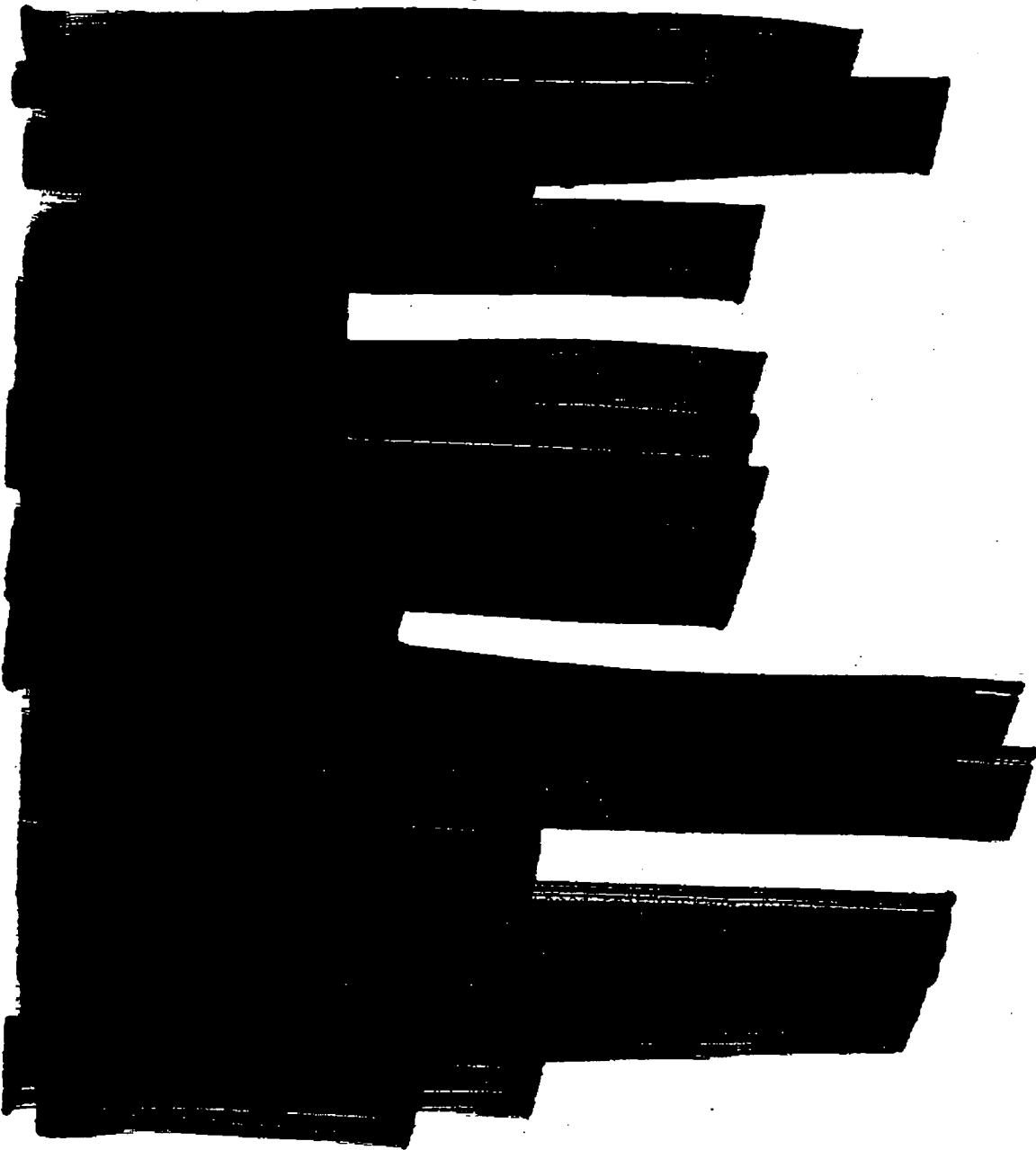
Mail for Diane Terry-Davis   Thu, 3 May 2001 11:21:19 –0700 (PDT)   Page 2

Thank you, Peter Yared, for submitting this disclosure.

P6415 – Invention Disclosure – Yared

Mail for Diane Terry-Davis   *Thu, 3 May 2001 11:21:19 -0700 (PDT)*   Page 3

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4. WRITTEN DESCRIPTION
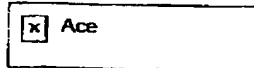
The invention is described as follows:

The Transport Packager enables a programmer to specify what classes to cast into different classes. There are numerous methods supplied to enable the casting, including explicitly specifying class names, adding a suffix by a class' superclass, and searching and replacing within the text of the class' name. The Transport Packager uses the casting guidelines provided to automatically cast an

object into a new class. The Transport Packager can then recreate the original object as an object of a new class. A complete description and full documentation is available at:
http://sunlabs.eng/projects/ace/Milestone2/TransportPackager/TransportPackager.html

P6415 – Invention Disclosure – Yared

Tab 2

Sun Labs

SUNW 19.26, -0.60

☒ Ace

TransportPackager

The Ace TransportPackager provides maximum flexibility for client/server data movement.

Problem Statement

In Java-based distributed computing environments, it is extremely difficult to send a graph of complex, arbitrary objects between address spaces and retain the sharing of the instances through the graph. RMI requires that the objects are serializable and IIOP requires that the objects be composed of simple IDL types.

Solution

The TransportPackager converts a graph of complex, arbitrary objects into a single object that can be transported using existing protocols such as RMI and IIOP or stored and retrieved from disk.

TransportPackager Features and Benefits

Feature	Benefit
Packages an Object Graph for Transport	Packaged object can be sent over simple wire protocols such as RMI and IIOP, or simply stored to disk.
Multiple Object Access Options	Uses either Java reflection or JavaBean introspection and works with most Java classes, included Enterprise JavaBeans.
Preserves Instance Sharing	Complex object graphs are preserved, and duplicate instances are only packaged once for transport.
Completely Orthogonal	Classes do not need to implement any interfaces in order to work with the TransportPackager.

file://C:\WINDOWS\TEMP\TransportPackager.htm

05/10/2001

Allows Object to be Trimmed	Specific members of the object graph may be specified for transport ¿ all others are ignored.
Extensive Class Casting	Instances can automatically be converted into similar classes with similar members.
Multiple Implementations	HashtableTransportPackager and XMLTransportPackager are included in the package.
Extensible	An interface is provided to manage the introspection and recreation of objects if a particular application requires extensive control.

Packages an Object for Transport

The TransportPackager packages an object graph by converting each object in the object graph into a new object that is appropriate for transport. The TransportPackager has a very simple, easy to use interface and can quickly be integrated into an existing distributed computing application. Following is an example of the API in use:

```
// Code on machine 1

Object o = new MyComplexObject();

TransportPackager transportPackager = new HashtableTransportPackager();

Object o2 = transportPackager.flatten(o);

// Code on machine 2

Object o = new ObjectReceivedFromTransport();

TransportPackager transportPackager = new HashtableTransportPackager();

Object o2 = transportPackager.expand(o);
```

Multiple Object Access Options

The TransportPackager can use either Java language reflection or JavaBeans introspection to read and write object members. Reflection is recommended for most cases, as it is more efficient. However, reflection does not work with certain objects, such as Enterprise JavaBeans. For such cases, introspection is recommended.

In order to be recreated by the TransportPackager, objects must have a default constructor and be instantiable without any parameters. When using reflection, all members (including protected and private members) that are non-transient are persisted. When using introspection, all JavaBean properties are persisted.

Preserves Instance Sharing

The TransportPackager preserves complex object graphs in which the same instance appears multiple times. In addition, such duplicate instances are only packaged once for transport, reducing transport size.

Completely Orthogonal

The TransportPackager is completely orthogonal ¿ classes do not need to implement any interfaces in order to work with the TransportPackager. The TransportPackager breaks instances down into fundamental Java types using either Java reflection or JavaBean introspection, and therefore does not require that classes implement *Serializable*, as most Java transports require.

Allows Object to be Trimmed

The TransportPackager allows the developer to specify paths into the object graph such that only relevant members are packaged for transport. For example, in a graph that contains an Employee instance that has numerous members, and only the first and last name are actually required for transport, the following usage may be specified:

```
lastName
firstName
```

If the employee¿s manager¿s last name is required as well, the usage may be nested:

```
lastName
firstName
manager.lastName
```

The ability to trim objects is very useful when only subsets of an object graph are required on the client.

Extensive Class Casting

With its extensive class casting features, the TransportPackager enables instances to be automatically converted into similar classes with similar members. This is particularly useful when transporting objects between a client and a server where the implementations are in fact completely different but the objects share a common interface or simply share common members.

The TransportPackager supports three methods of casting classes:

Method	Description	Example
Mapping	Maps a specifically named class to another specifically named class	Employee -> MyEmployeeBean
Suffix	Adds a suffix to a class name for instances of a superclass	Employee -> EmployeeProxy

| Parser | Performs a search and replace to a class name for instances of a superclass | EmployeeBean -> EmployeeProxy |

If the above three methods are not sufficient, the developer may hook into the TransportPackager to specifically provide a target class name for a particular class (see Extensible below).

Multiple Implementations

TransportPackager is in fact an interface, and the TransportPackager package includes two implementations of that interface: HashtableTransportPackager and XMLTransportPackager.

The HashtableTransportPackager converts objects into a subclass of java.util.Hashtable to store instance members. All properties are reduced to fundamental types by following the object tree and converting each instance into a hashtable. The resulting tree of Hashtables can be serialized, even if the original objects did not implement serializable.

The XMLTransportPackager is provided to support interoperability with non-Java platforms. It creates a very clean XML that uses the original objects's class and member names. An "id" attribute insures that duplicate instance references are not written multiple times into the XML file.

Extensible

An interface is provided to manage the introspection and recreation of objects if a particular application requires extensive control. Implementations of the interface can control how an object is introspected, recreated, and cast.

Code Documentation

For more specifics about the code, please examine the TransportPackager's JavaDoc information.

Sun Labs Home
Back to Top
This page is: http://sunlabs.eng/projects/ace/Milestone2/TransportPackager/TransportPackager.html Last
Modified: Tue, 10 Oct 2000 17:50:22 GMT
Sun Proprietary / Confidential: Internal Use Only

home | preferences

Tab 3

ROSENTHAL & OSHA L.L.P.

UNITED STATES
EUROPE

ONE HOUSTON CENTER · SUITE 2800
1221 MCKINNEY AVENUE
HOUSTON · TEXAS 77010

EUROPEAN OFFICE
121, AVENUE DES CHAMPS ELYSÉES
75008 PARIS · FRANCE

TELEPHONE: (713) 228-8600   FACSIMILE: (713) 228-8778   .

E-MAIL: osha@rosha.com

January 11, 2002

Mr. Sean Lewis
Sun Microsystems, Inc.
M/S: PAL01-521
901 San Antonio Road
Palo Alto, CA 94303

Re: New U.S. Patent Application Entitled
      "Dynamic Casting of Objects While Transporting"
      Inventors: Peter A. Yared et al.
      Our File: 16159.020001
      Your Reference: P6415

Dear Sean:

We confirm filing of the referenced Utility Application and Assignment with the U.S. Patent and Trademark Office on January 11, 2002, and enclose copies for your records.

Please note that we have one year from the filing date, namely, January 11, 2003, in which to file foreign applications claiming priority of the U.S. patent application. We will keep this date in our docketing system and will remind you of the deadline as the date draws closer.

Currently, we expect this application will be set for publication by the U.S. Patent Office around July 11, 2003. Please note that upon publication, it will be possible for third parties to view the above application. It is also possible for third parties to submit information to be considered by the examiner in your patent application. However, it is not possible for third parties to oppose your application before issuance without your express consent. If you would like further information regarding this process, please contact us.

In addition, we take this opportunity to remind you of the duty of candor under 37 CFR § 1.56. If you or the applicant should become aware of any information material to the examination of this application, kindly provide it to us as soon as possible so that it may be submitted to the Patent and Trademark Office in an Information Disclosure Statement.

ROSENTHAL & OSHA L.L.P.

Mr. Sean Lewis
January 11, 2002
Page 2

We will report to you further in due course. If you have any comments or questions, please do not hesitate to contact us.

Very truly yours,

Jonathan P. Osha

JPO/azd/lhs
Enclosures

cc: Peter A. Yared
Bruce K. Daniels
Robert N. Goldberg
Yury Kamen
Syed M. Ali
w/enclosures

24436_1.DOC

SUITE 4550
700 LOUISIANA STREET
HOUSTON, TEXAS 77002
TELEPHONE: (713) 228-8600
FACSIMILE: (713) 228-8778

ROSENTHAL & OSHA L.L.P.

Fax

Date: November 20, 2001   **File:** 16159/020001; P6415

To: SYED M. ALI   **Fax No.:** 1-650-969-7269

CC:

From: Robert Lord

Re: Draft Application
DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING

Pages (including cover sheet): *** ~~23~~ 24 ***

☐ **URGENT!** ☐ **Please Reply** ☑ **Please Review & Comment** ☐ **For Your Information**

● **COMMENTS:**

Syed:

Attached is a final draft incorporating the changes we discussed of the referenced application. If you have any questions, I can be reached at 713-228-8600 or by email at lord@rosha.com.

Regards,

Robert Lord

22620_1.DOC

```
********************************
***   ERROR TX REPORT    ***
********************************

TX FUNCTION WAS NOT COMPLETED

TX/RX NO              4331
CONNECTION TEL                  16509697269
SUBADDRESS
CONNECTION ID
ST. TIME              11/20 13:22
USAGE T               02'06
PGS. SENT             6
RESULT                NG          #001
```

SUITE 4550
700 LOUISIANA STREET
HOUSTON, TEXAS 77002
TELEPHONE: (713) 228-8600
FACSIMILE: (713) 228-8778

ROSENTHAL & OSHA L.L.P.

Fax

Date:	November 1̶8̶ 20, 2001	File:	16159/020001; P6415
To:	SYED M. ALI	Fax No.:	1-650-969-7269
CC:			
From:	Robert Lord		
Re:	Draft Application DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING		

Pages (including cover sheet):   ***   2̶3̶ 24   ***

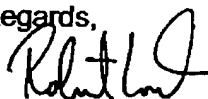☐ **URGENT!**   ☐ **Please Reply**   ☑ **Please Review & Comment**   ☐ **For Your Information**

● **COMMENTS:**

Syed:

Attached is a final draft incorporating the changes we discussed of the referenced application. If you have any questions, I can be reached at 713-228-8600 or by email at lord@rosha.com.

Regards,

Sun Microsystems, Inc.
901 San Antonio Road, MS PAL01-521
Palo Alto, CA 94303
Tel (650) 336-6000
Fax (650) 482-6796

Sun.
microsystems
We're the dot in .com™

Via Facsimile Only   May 11, 2001

Jonathan Osha, Esq.
Rosenthal & Osha L.L.P.   ** URGENT **
700 Louisiana Street, Ste. 4550
Houston, TX 77002

Re: New Patent Application entitled: Dynamic Casting of Objects While Transporting
      Inventors: Peter Yared, Bruce Daniels, Robert Goldberg, Yury Kamen, and Syed Ali
      Sun File No.: P6415
      Business Line: SL/CA – ACE

Dear Jon:

Enclosed is the above–identified invention disclosure. Sun has selected you for the
preparation of this patent application based on our understanding that you will
personally write or supervise the application. *Please note that this is an urgent filing
request. Please file this application no later than MAY 30, 2001.*

As counsel on behalf of Sun, it is your responsibility to (1) work directly with the
inventor(s) in preparing the application; (2) determine all relevant events regarding any
potential U.S. or international patent bar dates; and (3) obtain the necessary
signatures and file the application in a timely manner to preserve both U.S. and
international patent rights. Please contact me immediately in the event of any
problems. The Sun technical/primary inventor contact for this case is Peter Yared, who can be
reached at peter.yared@sun.com, 650.336.2728.

With regard to this application, please note the following:

1. Please notify me when you have set a date and location for your first disclosure meeting
   with the inventor.

2. Please send me a copy of the first draft of the application when it is sent to the inventor for
   review.

3. Please also provide me with a copy of the final draft application, in time for me to review
   and provide comments prior to filing the application.

4. When preparing the Power of Attorney form, please add the following attorneys:

Jonathan Osha, Esq.
Rosenthal & Osha L.L.P.
Re: P6415
May 10, 2001
Page 2

Kenneth Olsen, Reg. No. 26,493
Timothy J. Crean, Reg. No. 37,116
Alexander E. Silverman, Reg. No. 37,940
Aninna R. Gupta, Reg. No. 38,275
Sean P. Lewis, Reg. No. 42,798
Michael J. Schallop, Reg. No. 44,319
Bernice B. Chen, Reg. No. 42,403
Noreen A. Krall, Reg. No. 39,734
Richard J. Lutton, Reg. No. 39,756
Monica D. Ward, Reg. No. 40,696
Marc D. Foodman, Reg. No. 34,110
Naren Chaganti, Reg. No. 44,602
Elaine Lee, Reg. No. 41,936
Hugh H. Matsubayashi, Reg. No. 43,779
Paul D. Sorkin, Reg. No. 39,039
Marilyn F. Glaubensklee, Reg. No. 35,521
Ramin Aghevli, Reg. No. 43,462
Andrew C. Chen, Reg. No. 43,544
and Jeffrey L. Myers, Reg. No. 44,252
of SUN MICROSYSTEMS, INC.,
901 San Antonio Road, Palo Alto, CA, 94303

5. When you have received my approval of the final draft, please have the inventors execute
   the formal papers and file it. Please also notify me by e-mail at sean.lewis@sun.com of the
   date filed.

6. Per Sun procedures, please permit publication of this case in the United States unless
   contrary instructions are given.

7. As per our current billing agreement, this application is to be billed at actual cost up to a
   cap of $7,200.00. Please call me at 510.869.2064 if you have any questions about this.

If you have any questions or comments regarding this matter, please do not hesitate
to call.

Sincerely,

Sean P. Lewis, Esq.
Sr. Patent Counsel

Enclosures
/Dtd
/home/dldavis/2-UD.Management/Engagement.Letters/P6000-Ltrs/P6415.Rosenthal.Eng.Ltr.ltw

Tab 4

Detail Fee Transaction File List
Osha Liang L.L.P.

Client	Trans Date	Tmkr	H P	Tcd	Rate	Hours to Bill	Amount	Ref #

Entry Date 05/14/2001

16159.020001   05/14/2001 — Trip to California to meet Sun Lab Inventors — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 05/14/2001

Entry Date 05/15/2001

16159.020001   05/15/2001 — Meeting with Robert Goldberg, Peter Yard, Bruce Daniels, Syed Ali and Yury Kamen — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

16159.020001   05/15/2001 — isclosure at Sun — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 05/15/2001

Entry Date 08/10/2001

16159.020001   08/10/2001 — Take disclosure from Peter Yared, et al — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 08/10/2001

Entry Date 08/16/2001

16159.020001   08/16/2001 — Work on application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 08/16/2001

Entry Date 08/29/2001

16159.020001   08/29/2001 — Prepare patent application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 08/29/2001

Entry Date 08/31/2001

16159.020001   08/31/2001 — Prepare patent application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 08/31/2001

Entry Date 09/01/2001

16159.020001   09/01/2001 — Review application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

16159.020001   09/01/2001 — Prepare patent application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 09/01/2001

Entry Date 09/10/2001

16159.020001   09/10/2001 — Review application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 09/10/2001

Entry Date 09/12/2001

16159.020001   09/12/2001 — Prepare patent application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 09/12/2001

Entry Date 09/17/2001

16159.020001   09/17/2001 — Work on application — Sun Microsystems, Inc. — (P6415) Dynamic Casting of Objects While — ARCH

Total for Entry Date 09/17/2001

Entry Date 09/18/2001

16159.020001   09/18/2001 — Work on application — Sun Microsystems, Inc. — ARCH

CM

PAGE 33/37 * RCVD AT 11/29/2006 9:10:44 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/42 * DNIS:2738300 * CSID:7132288778 * DURATION (mm-ss):11-48

Wednesday 09/24/2006 3:31 pm

Detail Fee Transaction File List
Osha Liang L.L.P.

Client	Trans Date	Tmkr	H P	Tcd	Rate	Hours to Bill	Amount	Ref #

Entry Date 09/18/2001

(P6415) Dynamic Casting of Objects While

Total for Entry Date 09/18/2001

Entry Date 09/21/2001

16159.020001   09/21/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 09/21/2001

Entry Date 09/24/2001

16159.020001   09/24/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 09/24/2001

Entry Date 09/26/2001

16159.020001   09/26/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 09/26/2001

Entry Date 09/27/2001

16159.020001   09/27/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 09/27/2001

Entry Date 10/07/2001

16159.020001   10/07/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 10/07/2001

Entry Date 10/09/2001

16159.020001   10/09/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 10/09/2001

Entry Date 10/23/2001

16159.020001   10/23/2001   Review application to send draft to inventor   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 10/23/2001

Entry Date 10/25/2001

16159.020001   10/25/2001   Review Application and Discuss with inventors at Mountainview   ARCH
Campus
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 10/25/2001

Entry Date 10/26/2001

16159.020001   10/26/2001   Review claims/discuss application with inventors at   ARCH
Mountainview Campus
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 10/26/2001

Entry Date 11/05/2001

16159.020001   11/05/2001   Work on application   ARCH
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While

Total for Entry Date 11/05/2001

Entry Date 11/06/2001

16159.020001   11/06/2001   Review and update Application   ARCH
Sun Microsystems, Inc.

ICM

Detail Fee Transaction File List
Osha Liang L.L.P.

Client	Trans Date	Tmkr	H P	Tcd	Rate	Hours to Bill	Amount		Ref #

Entry Date 11/06/2001

| 16159.020001 | 11/06/2001 | ████████████████████ | | (P6415) Dynamic Casting of Objects While
Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/06/2001

Entry Date 11/07/2001

| 16159.020001 | 11/07/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/07/2001

Entry Date 11/19/2001

| 16159.020001 | 11/19/2001 | ████████████████████ | | Review and correct application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |
| 16159.020001 | 11/19/2001 | ████████████████████ | | Work on application with additional inventor disclosure
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/19/2001

Entry Date 11/20/2001

| 16159.020001 | 11/20/2001 | ████████████████████ | | Correspond with inventor re: drafts
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |
| 16159.020001 | 11/20/2001 | ████████████████████ | | Obtain clarification from inventor
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/20/2001

Entry Date 11/21/2001

| 16159.020001 | 11/21/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |
| 16159.020001 | 11/21/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/21/2001

Entry Date 11/27/2001

| 16159.020001 | 11/27/2001 | ████████████████████ | | Meeting in CA w/inventor to discuss invention
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/27/2001

Entry Date 11/28/2001

| 16159.020001 | 11/28/2001 | ████████████████████ | | Meeting in CA w/inventor to discuss invention
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |
| 16159.020001 | 11/28/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 11/28/2001

Entry Date 12/05/2001

| 16159.020001 | 12/05/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 12/05/2001

Entry Date 12/06/2001

| 16159.020001 | 12/06/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

Total for Entry Date 12/06/2001

Entry Date 12/11/2001

| 16159.020001 | 12/11/2001 | ████████████████████ | | Work on application
Sun Microsystems, Inc.
(P6415) Dynamic Casting of Objects While | ARCH |

5CM

Client	Trans Date	Tmkr	H P	Tcd	Rate	Hours to Bill	Amount	Ref #

Entry Date 12/11/2001

Total for Entry Date 12/11/2001

Entry Date 12/12/2001

16159.020001	12/12/2001						Work on application	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	
16159.020001	12/12/2001						Work on application	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	

Total for Entry Date 12/12/2001

Entry Date 12/13/2001

16159.020001	12/13/2001						Work on application	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	

Total for Entry Date 12/13/2001

Entry Date 12/20/2001

16159.020001	12/20/2001						Work on application	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	

Total for Entry Date 12/20/2001

Entry Date 12/31/2001

16159.020001	12/31/2001						Prepare transmittal package, file, docket and report U.S. utility application (including declaration & small entity declaration if applicable)	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	
16159.020001	12/31/2001						Prepare and file assignment recordal document with application	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	
16159.020001	12/31/2001						Prepare and forward Power of Attorney for execution; file Power of Attorney after application and report same	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	
16159.020001	12/31/2001						Prepare and forward assignment and declaration for execution	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	

Total for Entry Date 12/31/2001

Entry Date 01/09/2002

16159.020001	01/09/2002						Discuss application; formal papers	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	

Total for Entry Date 01/09/2002

Entry Date 01/11/2002

16159.020001	01/11/2002						Final review and filing	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	
16159.020001	01/11/2002						Double check application	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	

Total for Entry Date 01/11/2002

Entry Date 02/22/2002

16159.020001	02/22/2002						Submit Power of Attorney	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	
16159.020001	02/22/2002						Double check power of attorney package	ARCH
							Sun Microsystems, Inc.	
							(P6415) Dynamic Casting of Objects While	